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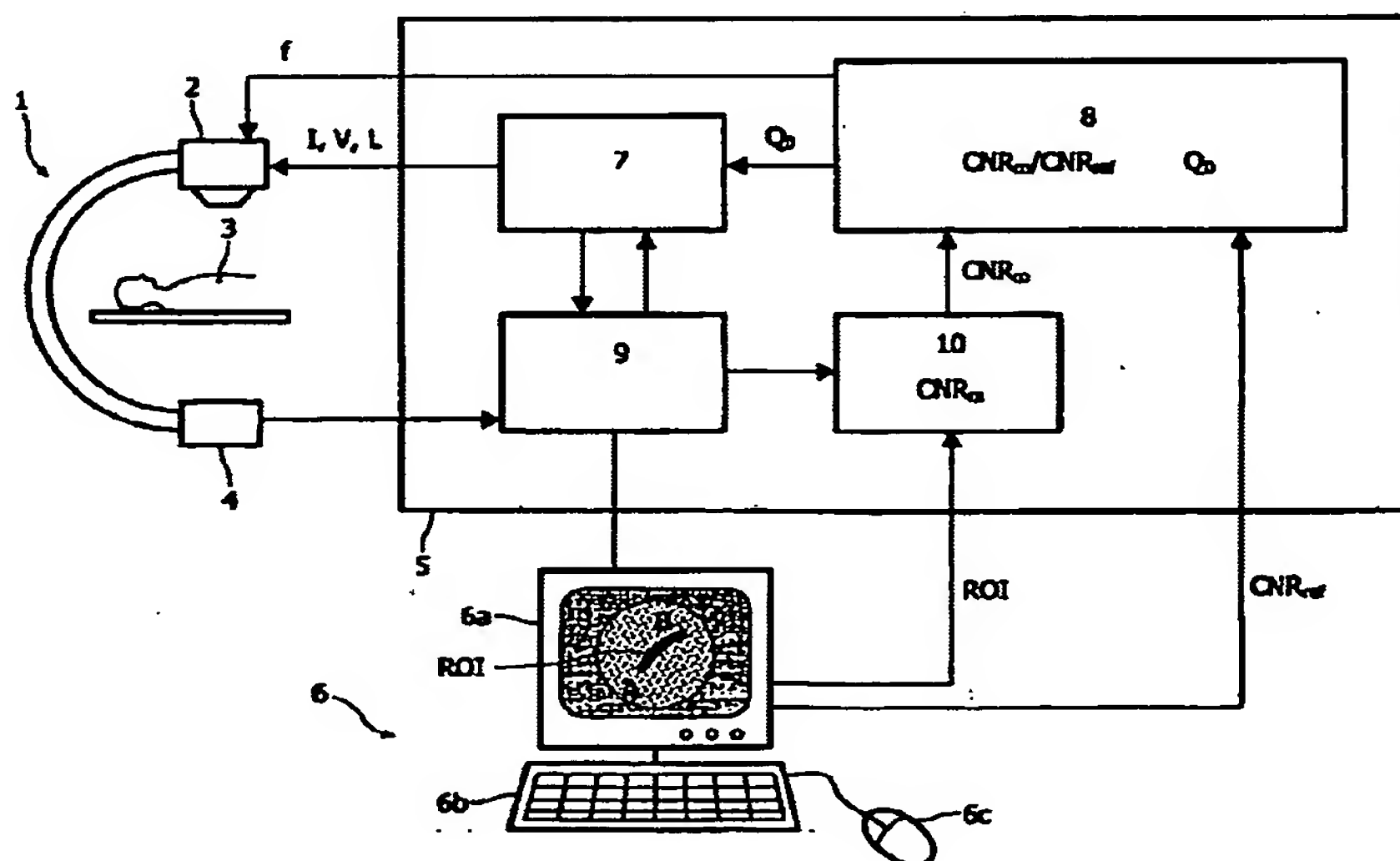
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**(54) Title: DEVICE AND METHOD FOR ADJUSTING IMAGING PARAMETERS OF AN X-RAY APPARATUS**



**(57) Abstract:** The invention relates to a device for adjusting imaging parameters of an X-ray apparatus (1), whereby a user pre-defines on a preliminary image an image region of interest (ROI) and a value of the contrast-to-noise ratio ( $CNR_{ref}$ ) desired for this image region. Based on the current contrast-to-noise ratio ( $CNR_{cur}$ ), new imaging parameters ( $I, V, L, f, Q_0$ ) are then calculated for a generator-control module (7) to control the X-ray apparatus (1) during an image. By means of the method, the X-ray dose may be reduced to a minimum, while at the same time the desired visibility of a region of interest is ensured.